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SEQUENCE LISTING

<110> John Fikes  
Alessandro Sette  
John Sidney  
Scott Southwood  
Robert Chesnut  
Esteban Celis  
Elissa Keogh

<120> Inducing Cellular Immune Responses to Carcinoembryonic Antigen  
Using Peptide and Nucleic Acid Compositions

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<141> 1999-12-10

<150> US 09/098,584

<151> 1998-06-17

<150> PCT/US99/13789

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<150> US 09/017,735

<151> 1998-02-03

<150> US 08/589,108

<151> 1996-01-23

<150> US 09/016,361

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Glu Asp Lys Asp Ala Val Ala Phe  
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Gly Ser Tyr Thr Cys Gln Ala His  
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Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala  
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Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr  
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Gly Thr Ser Pro Gly Leu Ser Ala  
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Trp Leu Ile Asp Gly Asn Ile Gln Gln His  
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Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu  
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Gly Phe Tyr Thr Leu His Val Ile  
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Ser Trp Phe Val Asn Gly Thr Phe  
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Ser Tyr Leu Ser Gly Ala Asn Leu  
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Ser Tyr Arg Ser Gly Glu Asn Leu  
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Ser Tyr Arg Ser Gly Glu Asn Leu Asn Leu  
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<400> 1806  
Thr Tyr Tyr Arg Pro Gly Val Asn Leu  
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Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu

1 5 10

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<400> 1808  
Val Tyr Ala Glu Pro Pro Lys Pro Phe  
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<400> 1809  
Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile  
1 5 10

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<400> 1810  
Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile  
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<400> 1811  
Trp Trp Val Asn Gly Gln Ser Leu  
1 5

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<400> 1812  
Trp Trp Val Asn Asn Gln Ser Leu  
1 5

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<400> 1813  
Tyr Tyr Arg Pro Gly Val Asn Leu  
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<400> 1814  
Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu  
1 5 10

<210> 1815  
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<400> 1815  
Arg Trp Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu  
1 5 10 15

<210> 1816  
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<400> 1816  
Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr  
1 5 10 15

<210> 1817  
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<400> 1817

Trp	Gln	Arg	Leu	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn
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<400> 1818

Gln	Arg	Leu	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn	Pro
1				5					10					15

<210> 1819

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<400> 1819

Arg	Leu	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn	Pro	Pro
1				5					10					15

<210> 1820

<211> 15

<212> PRT

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<400> 1820

Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn	Pro	Pro	Thr	Thr	Ala	Lys	Leu
1				5					10					15

<210> 1821

<211> 15

<212> PRT

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<400> 1821

Leu	Leu	Thr	Phe	Trp	Asn	Pro	Pro	Thr	Thr	Ala	Lys	Leu	Thr	Ile
1				5					10					15

<210> 1822

<211> 15



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<400> 1822  
Leu Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile Glu  
1 5 10 15

<210> 1823  
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<400> 1823  
Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu  
1 5 10 15

<210> 1824  
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<400> 1824  
Glu Val Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly  
1 5 10 15

<210> 1825  
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<400> 1825  
Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr  
1 5 10 15

<210> 1826  
<211> 15  
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<400> 1826  
Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile  
1 5 10 15

<210> 1827  
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<400> 1827  
Asn Arg Gln Ile Ile Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr  
1 5 10 15

<210> 1828  
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<400> 1828  
Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr  
1 5 10 15

<210> 1829  
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<400> 1829  
Gly Pro Ala Tyr Ser Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser  
1 5 10 15

<210> 1830  
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<400> 1830  
Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn  
1 5 10 15

<210> 1831  
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<400> 1831  
Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile

1	5	10	15
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<210> 1832  
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<400> 1832  
Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile  
1 5 10 15

<210> 1833  
<211> 15  
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<400> 1833  
Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly  
1 5 10 15

<210> 1834  
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<220>  
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<400> 1834  
Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe  
1 5 10 15

<210> 1835  
<211> 15  
<212> PRT  
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<220>  
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<400> 1835  
Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His  
1 5 10 15

<210> 1836  
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<400> 1836

Asp	Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val
1				5					10				15	

<210> 1837

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1837

Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn
1				5					10				15	

<210> 1838

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1838

Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu
1				5					10				15	

<210> 1839

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1839

Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr
1				5					10				15	

<210> 1840

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1840

Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly
1				5					10				15	

<210> 1841

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1841

Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val
1				5					10					15

<210> 1842

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1842

Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val	Tyr
1				5					10					15

<210> 1843

<211> 15

<212> PRT

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<400> 1843

Gln	Phe	Arg	Val	Tyr	Pro	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser
1				5					10					15

<210> 1844

<211> 15

<212> PRT

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<400> 1844

Tyr	Pro	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys
1				5					10					15

<210> 1845

<211> 15

<212> PRT

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<400> 1845

Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys	Pro	Val	Glu	Asp	Lys
1				5					10					15

<210> 1846

<211> 15

<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1846  
Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu  
1 5 10 15

<210> 1847  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1847  
Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg  
1 5 10 15

<210> 1848  
<211> 15  
<212> PRT  
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<220>  
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<400> 1848  
Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu  
1 5 10 15

<210> 1849  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1849  
Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Thr Ala  
1 5 10 15

<210> 1850  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1850  
Leu Phe Asn Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys Cys Glu  
1 5 10 15

<210> 1851  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1851  
Gln Asn Pro Val Ser Ala Arg Arg Ser Asp Ser Val Ile Leu Asn  
1 5 10 15

<210> 1852  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1852  
Ser Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro  
1 5 10 15

<210> 1853  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1853  
Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu  
1 5 10 15

<210> 1854  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1854  
Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn  
1 5 10 15

<210> 1855  
<211> 15  
<212> PRT  
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<220>  
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<400> 1855  
Ala Pro Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu

1 5 10 15

<210> 1856  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1856  
Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln  
1 5 10 15

<210> 1857  
<211> 15  
<212> PRT  
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<220>  
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<400> 1857  
Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln  
1 5 10 15

<210> 1858  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 1858  
Thr Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly  
1 5 10 15

<210> 1859  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1859  
Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser  
1 5 10 15

<210> 1860  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 1860

Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr  
1 5 10 15

<210> 1861

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1861

Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln  
1 5 10 15

<210> 1862

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1862

Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His  
1 5 10 15

<210> 1863

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1863

Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr  
1 5 10 15

<210> 1864

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1864

Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys  
1 5 10 15

<210> 1865

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1865

Thr	Ile	Thr	Val	Tyr	Ala	Glu	Pro	Pro	Lys	Pro	Phe	Ile	Thr	Ser
1				5					10					15

<210> 1866

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1866

Lys	Pro	Phe	Ile	Thr	Ser	Asn	Asn	Ser	Asn	Pro	Val	Glu	Asp	Glu
1				5					10					15

<210> 1867

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1867

Ser	Asn	Pro	Val	Glu	Asp	Glu	Asp	Ala	Val	Ala	Leu	Thr	Cys	Glu
1				5					10					15

<210> 1868

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1868

Asn	Arg	Thr	Leu	Thr	Leu	Leu	Ser	Val	Thr	Arg	Asn	Asp	Val	Gly
1				5					10					15

<210> 1869

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1869

Leu	Leu	Ser	Val	Thr	Arg	Asn	Asp	Val	Gly	Pro	Tyr	Glu	Cys	Gly
1				5					10					15

<210> 1870

<211> 15

<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1870  
Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu  
1 5 10 15

<210> 1871  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1871  
Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro  
1 5 10 15

<210> 1872  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1872  
Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn  
1 5 10 15

<210> 1873  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1873  
Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu  
1 5 10 15

<210> 1874  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1874  
Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Asp Pro  
1 5 10 15

<210> 1875  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1875  
Asn Val Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr  
1 5 10 15

<210> 1876  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1876  
Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val  
1 5 10 15

<210> 1877  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 1877  
Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu  
1 5 10 15

<210> 1878  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1878  
Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu Ser Cys  
1 5 10 15

<210> 1879  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1879  
Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn

1	5	10	15
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<210> 1880  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1880  
Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln  
1 5 10 15

<210> 1881  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1881  
Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu  
1 5 10 15

<210> 1882  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1882  
Thr Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly  
1 5 10 15

<210> 1883  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1883  
Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu  
1 5 10 15

<210> 1884  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1884

Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys Gln  
1 5 10 15

<210> 1885

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1885

Asn Ser Gly Leu Tyr Thr Cys Gln Ala Asn Asn Ser Ala Ser Gly  
1 5 10 15

<210> 1886

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1886

Arg Thr Thr Val Lys Thr Ile Thr Val Ser Ala Glu Leu Pro Lys  
1 5 10 15

<210> 1887

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1887

Thr Ile Thr Val Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser  
1 5 10 15

<210> 1888

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1888

Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys  
1 5 10 15

<210> 1889

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1889

Tyr	Leu	Trp	Trp	Val	Asn	Gly	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg
1				5					10					15

<210> 1890

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1890

Leu	Trp	Trp	Val	Asn	Gly	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	Leu
1				5					10					15

<210> 1891

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1891

Asn	Arg	Thr	Leu	Thr	Leu	Phe	Asn	Val	Thr	Arg	Asn	Asp	Ala	Arg
1					5					10				15

<210> 1892

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1892

Leu	Phe	Asn	Val	Thr	Arg	Asn	Asp	Ala	Arg	Ala	Tyr	Val	Cys	Gly
1					5				10					15

<210> 1893

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1893

Val	Cys	Gly	Ile	Gln	Asn	Ser	Val	Ser	Ala	Asn	Arg	Ser	Asp	Pro
1					5				10					15

<210> 1894

<211> 15

<212> PRT  
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<220>  
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<400> 1894  
Gln Asn Ser Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asp  
1 5 10 15

<210> 1895  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1895  
Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro  
1 5 10 15

<210> 1896  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1896  
Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro  
1 5 10 15

<210> 1897  
<211> 15  
<212> PRT  
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<220>  
<223> Artificial Peptide

<400> 1897  
Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp  
1 5 10 15

<210> 1898  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1898  
Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly Ala  
1 5 10 15



<210> 1899  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1899  
Ser Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser  
1 5 10 15

<210> 1900  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Artificial Peptide

<400> 1900  
Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser Pro Gln  
1 5 10 15

<210> 1901  
<211> 15  
<212> PRT  
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<220>  
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<400> 1901  
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<400> 1902  
Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu Phe Ile Ala  
1 5 10 15

<210> 1903  
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<400> 1903  
Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly

1 5 10 15

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<400> 1904  
Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr  
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<400> 1905  
Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr  
1 5 10 15

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Asn Gly Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg  
1 5 10 15

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<400> 1907  
Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser  
1 5 10 15

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<400> 1908

Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile  
1 5 10 15

<210> 1909

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<400> 1909

Asn Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr  
1 5 10 15

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<400> 1910

Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser  
1 5 10 15

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<400> 1911

Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu  
1 5 10 15

<210> 1912

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<400> 1912

Ser Ile Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu Ser Ala  
1 5 10 15

<210> 1913

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1				5					10					15

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Thr	Val	Gly	Ile	Met	Ile	Gly	Val	Leu	Val	Gly	Val	Ala	Leu	Ile
1				5				10						15

<210> 1915

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Thr	Ala	Lys	Leu	Thr	Ile	Glu	Ser	Thr	Pro	Phe	Asn	Val	Ala	Glu
1				5					10					15

<210> 1916

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Tyr	Ser	Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly	Asn	Arg	Gln	Ile
1				5					10					15

<210> 1917

<211> 15

<212> PRT

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<400> 1917

Asn	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	Leu	Gln	Leu	Ser	Asn	Gly
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<210> 1918

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<400> 1918  
Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro  
1 5 10 15

<210> 1919  
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<400> 1919  
Gly Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly  
1 5 10 15

<210> 1920  
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<400> 1920  
Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val  
1 5 10 15

<210> 1921  
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<400> 1921  
Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly  
1 5 10 15

<210> 1922  
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<400> 1922  
Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val  
1 5 10 15

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<400> 1923  
Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr  
1 5 10 15

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<400> 1924  
Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser  
1 5 10 15

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<400> 1925  
Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr  
1 5 10 15

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<400> 1926  
Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg  
1 5 10 15

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<400> 1927  
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<400> 1928  
Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser  
1 5 10 15

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<400> 1929  
Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu  
1 5 10 15

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<400> 1930  
Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr Thr Tyr  
1 5 10 15

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<220>  
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<400> 1931  
Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro  
1 5 10 15

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<400> 1932

Gln	Asn	Glu	Leu	Ser	Val	Asp	His	Ser	Asp	Pro	Val	Ile	Leu	Asn
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Asn	Val	Leu	Tyr	Gly	Pro	Asp	Asp	Pro	Thr	Ile	Ser	Pro	Ser	Tyr
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<210> 1934

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<400> 1934

Thr	Ile	Thr	Val	Ser	Ala	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser
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<210> 1935

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<212> PRT

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<400> 1935

Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Ala	Gln	Asn	Thr	Thr	Tyr
1				5					10				15	

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<400> 1936

Ser	Asp	Pro	Val	Thr	Leu	Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro
1				5					10				15	

<210> 1937

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<400> 1937

Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro	Ile	Ile	Ser	Pro	Pro	Asp
1				5					10					15

<210> 1938

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<212> PRT

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<400> 1938

Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val	Tyr	Pro	Glu	Leu	Pro
1				5					10					15

<210> 1939

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<400> 1939

Ile	Ser	Pro	Leu	Asn	Thr	Ser	Tyr	Arg	Ser	Gly	Glu	Asn	Leu	Asn
1				5					10					15

<210> 1940

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<400> 1940

Ser	Gly	Ser	Tyr	Thr	Cys	Gln	Ala	His	Asn	Ser	Asp	Thr	Gly	Leu
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Asn	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	Leu	Gln	Leu	Ser	Asn	Asp
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<210> 1942

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<400> 1942  
Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser  
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<400> 1943  
Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro  
1 5 10 15

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<400> 1944  
Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser  
1 5 10 15

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<400> 1945  
Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His  
1 5 10 15

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<400> 1946  
Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu Gln Arg  
1 5 10 15

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<400> 1947  
Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro  
1 5 10 15

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<400> 1948  
Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr  
1 5 10 15

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<400> 1949  
Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr  
1 5 10 15

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<400> 1950  
His Ser Cys Val Asp Leu Asp Asp Lys Gly Cys Pro Ala Glu Gln  
1 5 10 15

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<400> 1951  
Gly Met Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu

1 5 10 15

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<400> 1952  
Cys Trp Met Ile Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu  
1 5 10 15

<210> 1953  
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<400> 1953  
Gln Gly Gly Ala Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser  
1 5 10 15

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<400> 1954  
Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu Val His  
1 5 10 15

<210> 1955  
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<400> 1955  
Val Lys Val Leu His His Thr Leu Lys Ile Gly Gly Glu Pro His  
1 5 10 15

<210> 1956  
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Thr	Leu	Lys	Ile	Gly	Gly	Glu	Pro	His	Ile	Ser	Tyr	Pro	Pro	Leu
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Glu	Phe	Gln	Ala	Ala	Leu	Ser	Arg	Lys	Val	Ala	Glu	Leu	Val	His
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Glu	Asp	Ser	Ile	Leu	Gly	Asp	Pro	Lys	Lys	Leu	Leu	Thr	Gln	His
1				5					10					15

<210> 1959

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Met	Ala	Ile	Tyr	Lys	Gln	Ser	Gln	His	Met	Thr	Glu	Val	Val	Arg
1				5					10					15

<210> 1960

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<400> 1960

Leu	Ile	Arg	Val	Glu	Gly	Asn	Leu	Arg	Val	Glu	Tyr	Leu	Asp	Asp
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<210> 1961

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<400> 1961

Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe Glu  
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<210> 1962

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<400> 1962

Ile Pro Trp Gln Arg Leu Leu Leu Thr  
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<400> 1963

Trp Gln Arg Leu Leu Leu Thr Ala Ser  
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<210> 1964

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Leu Leu Leu Thr Ala Ser Leu Leu Thr  
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<400> 1965

Leu Leu Thr Ala Ser Leu Leu Thr Phe  
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<210> 1966

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<400> 1966  
Leu Thr Ala Ser Leu Leu Thr Phe Trp  
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Leu Thr Phe Trp Asn Pro Pro Thr Thr  
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<400> 1968  
Phe Trp Asn Pro Pro Thr Thr Ala Lys  
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<400> 1969  
Trp Asn Pro Pro Thr Thr Ala Lys Leu  
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<400> 1970  
Leu Thr Ile Glu Ser Thr Pro Phe Asn  
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<400> 1971  
Leu Leu Val His Asn Leu Pro Gln His  
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<400> 1972  
Leu Val His Asn Leu Pro Gln His Leu  
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<400> 1973  
Tyr Lys Gly Glu Arg Val Asp Gly Asn  
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<210> 1974  
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<400> 1974  
Ile Ile Gly Tyr Val Ile Gly Thr Gln  
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<400> 1975  
Ile Gly Thr Gln Gln Ala Thr Pro Gly



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<220>  
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<400> 1976  
Tyr Ser Gly Arg Glu Ile Ile Tyr Pro  
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<220>  
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<400> 1977  
Ile Ile Tyr Pro Asn Ala Ser Leu Leu  
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<210> 1978  
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<400> 1978  
Ile Tyr Pro Asn Ala Ser Leu Leu Ile  
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<400> 1979  
Tyr Pro Asn Ala Ser Leu Leu Ile Gln  
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<400> 1980  
Leu Leu Ile Gln Asn Ile Ile Gln Asn  
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<400> 1981  
Leu Ile Gln Asn Ile Ile Gln Asn Asp  
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<210> 1982  
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<212> PRT  
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<220>  
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<400> 1982  
Ile Ile Gln Asn Asp Thr Gly Phe Tyr  
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<400> 1983  
Phe Tyr Thr Leu His Val Ile Lys Ser  
1 5

<210> 1984  
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<400> 1984  
Tyr Thr Leu His Val Ile Lys Ser Asp  
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<400> 1985

Leu His Val Ile Lys Ser Asp Leu Val  
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<210> 1986

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<400> 1986

Val Ile Lys Ser Asp Leu Val Asn Glu  
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<400> 1987

Ile Lys Ser Asp Leu Val Asn Glu Glu  
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<210> 1988

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<400> 1988

Leu Val Asn Glu Glu Ala Thr Gly Gln  
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<400> 1989

Val Asn Glu Glu Ala Thr Gly Gln Phe  
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<210> 1990

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<400> 1990  
Val Tyr Pro Glu Leu Pro Lys Pro Ser  
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<400> 1991  
Leu Pro Lys Pro Ser Ile Ser Ser Asn  
1 5

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<400> 1992  
Ile Ser Ser Asn Asn Ser Lys Pro Val  
1 5

<210> 1993  
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<400> 1993  
Val Glu Asp Lys Asp Ala Val Ala Phe  
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<400> 1994  
Trp Val Asn Asn Gln Ser Leu Pro Val  
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<400> 1995  
Val Asn Asn Gln Ser Leu Pro Val Ser  
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<400> 1996  
Leu Thr Leu Phe Asn Val Thr Arg Asn  
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<400> 1997  
Val Thr Arg Asn Asp Thr Ala Ser Tyr  
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<400> 1998  
Val Ser Ala Arg Arg Ser Asp Ser Val  
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<400> 1999  
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<210> 2000

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<400> 2000

Leu Tyr Gly Pro Asp Ala Pro Thr Ile

1

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<210> 2001

<211> 9

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<400> 2001

Tyr Gly Pro Asp Ala Pro Thr Ile Ser

1

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<210> 2002

<211> 9

<212> PRT

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<400> 2002

Ile Ser Pro Leu Asn Thr Ser Tyr Arg

1

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<210> 2003

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<400> 2003

Leu Ser Cys His Ala Ala Ser Asn Pro

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<210> 2004

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Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro  
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Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly  
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Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr  
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Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser  
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Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser  
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Arg Trp Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu  
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Glu Val Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly  
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Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn  
1 5 10 15

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Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile  
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Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly  
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<400> 2353  
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Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser  
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<400> 2358

Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn  
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Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser  
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<400> 2362

Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu  
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<400> 2363

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Arg Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser  
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<400> 2372  
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<400> 2373  
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tyrosine

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<223> May be Ile, Val, Met, Ser, Ala, Cys, Thr, Pro or Leu

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<400> 2387

Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly  
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